

Examiner's Gr

AN 1982-01551E [01] WPIDS

TI Mechanical and heat treatment of dies and races - with additional induction heating to controlled depth before deformation.

DC M24

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The working life of dies, ball races, etc. subject to abrasive wear and heavy loadings is increased by heating to austenitisation temp., holding, additional induction heating above austenitisation temp., plastic deformation of the working surface, quenching and tempering. The supplementary induction heating extends to the volume of metal a distance of 2-15 mm. from the deformed working surface.